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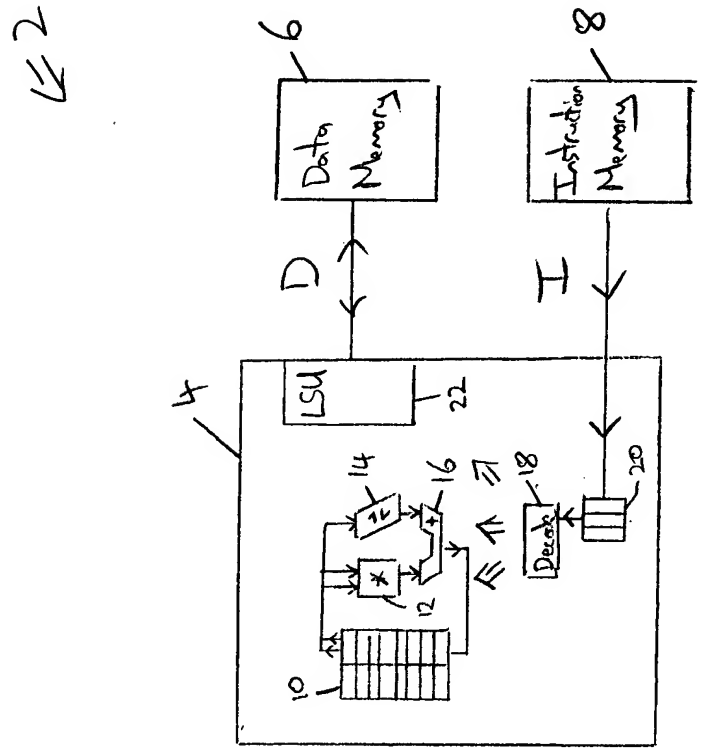


Fig. 1

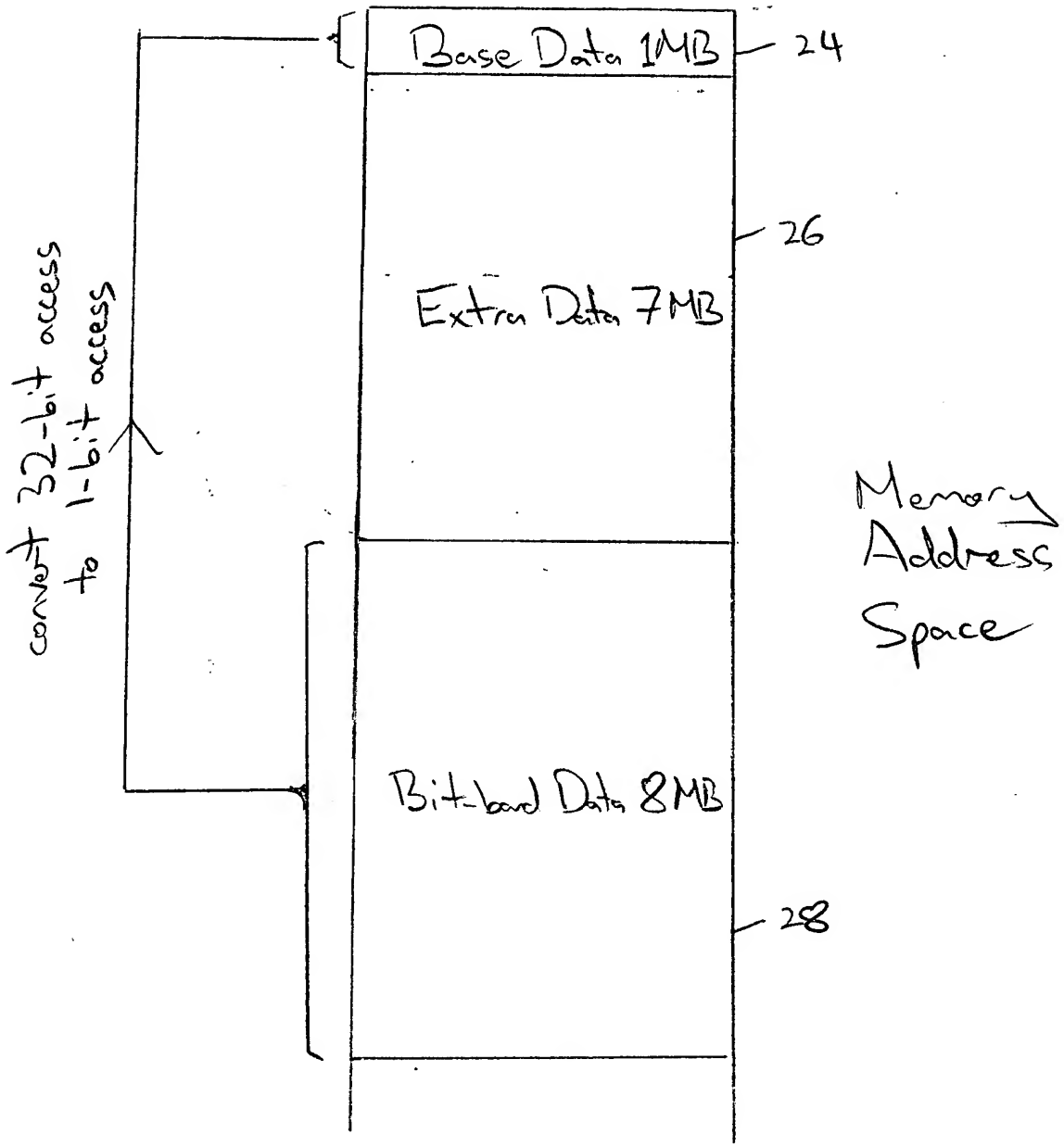
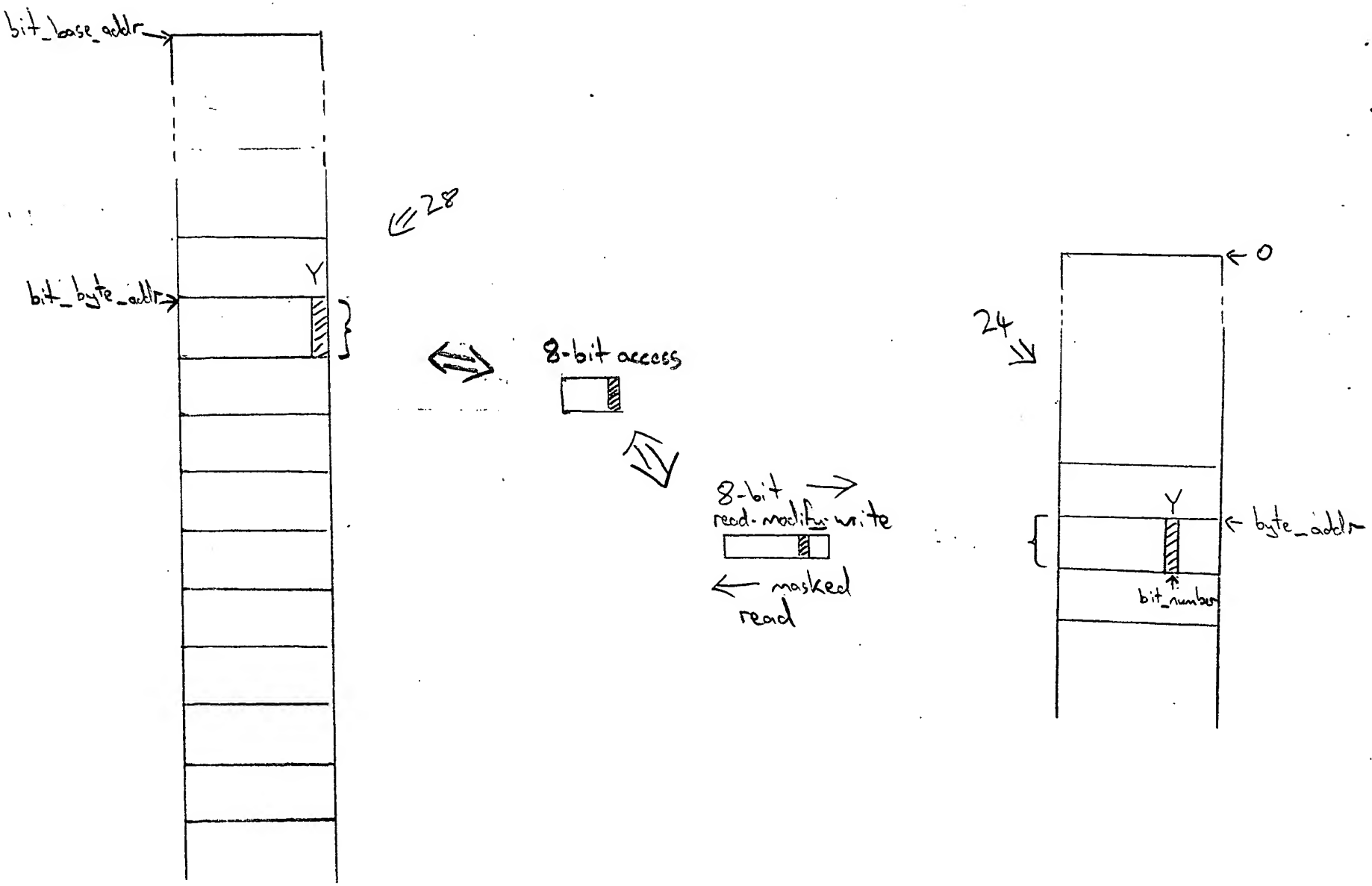
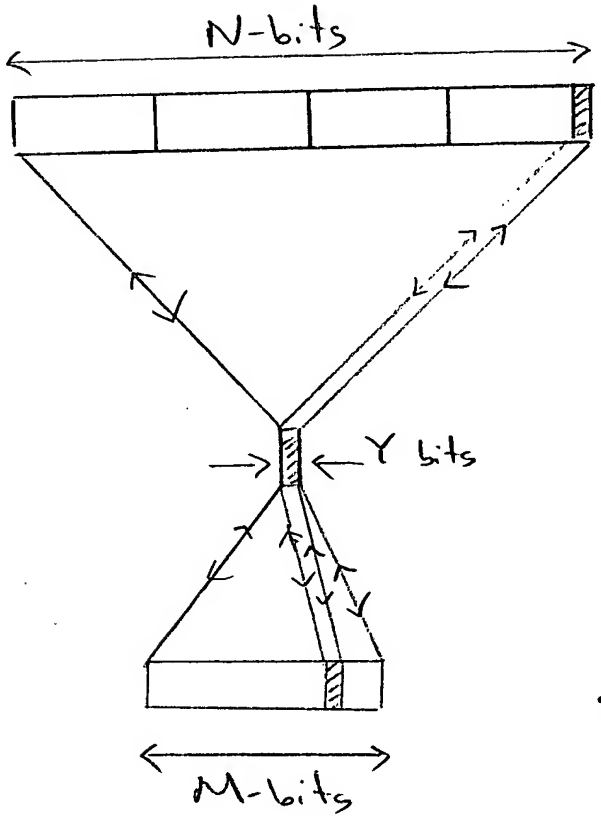

Base Data 1MB
24
26
Extra Data 7MB
Memory Address Space
convert 32-bit access to 1-bit access
Bit-band Data 8MB
28

Fig. 2



$$bit_byte_addr = bit_base_addr + (byte_addr * 8) + bit_number$$

Fig. 3



First data value

second data value

Fig. 4

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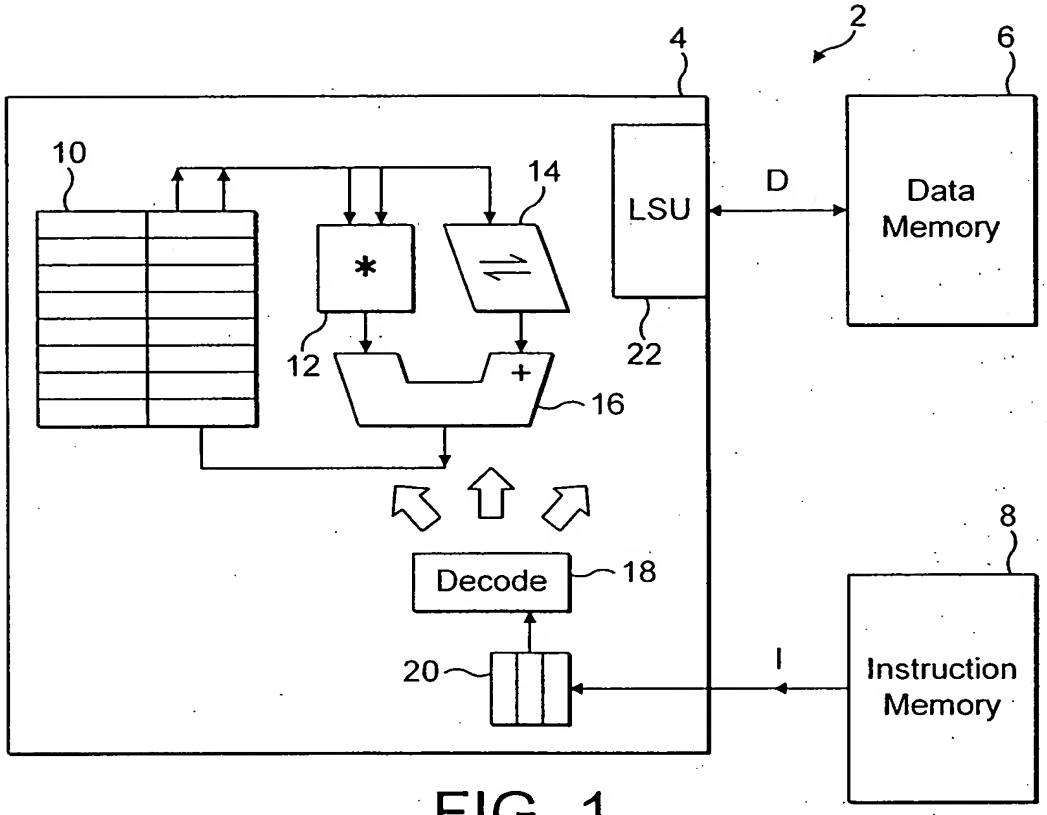

FIG. 1

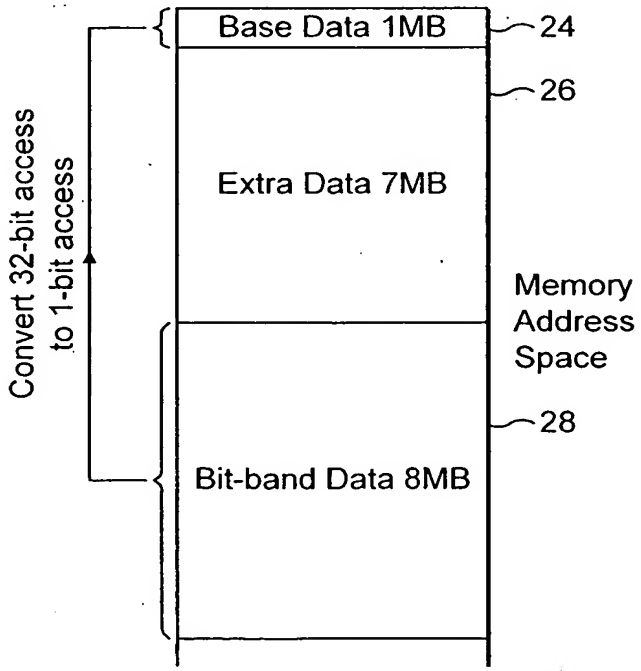

FIG. 2

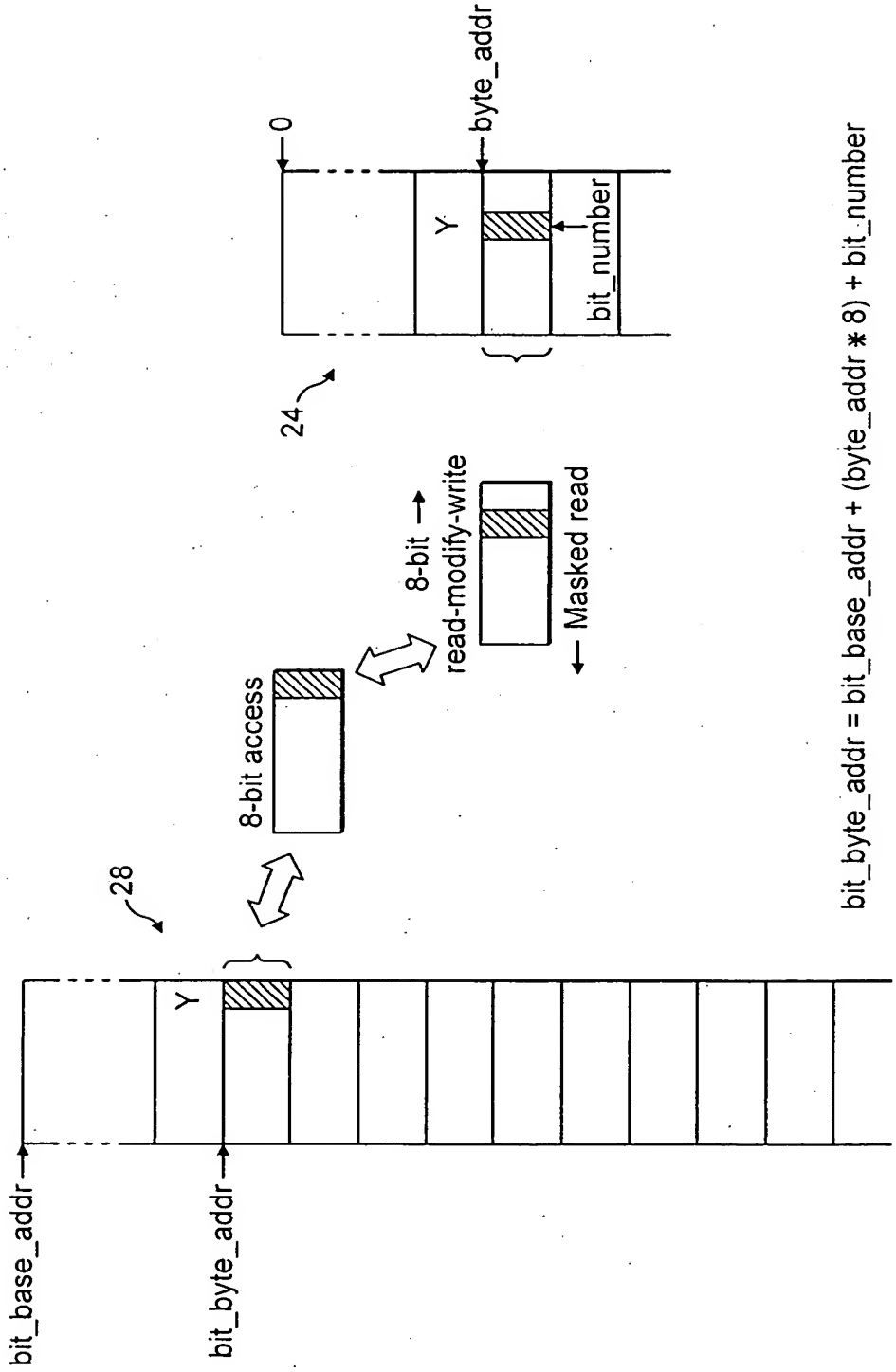
0
byte_addr
Y
bit_number
24
8-bit
read-modify-write
Masked read
8-bit access
28
Y
bit_base_addr
bit_byte_addr
bit_byte_addr = bit_base_addr + (byte_addr * 8) + bit_number

FIG. 3

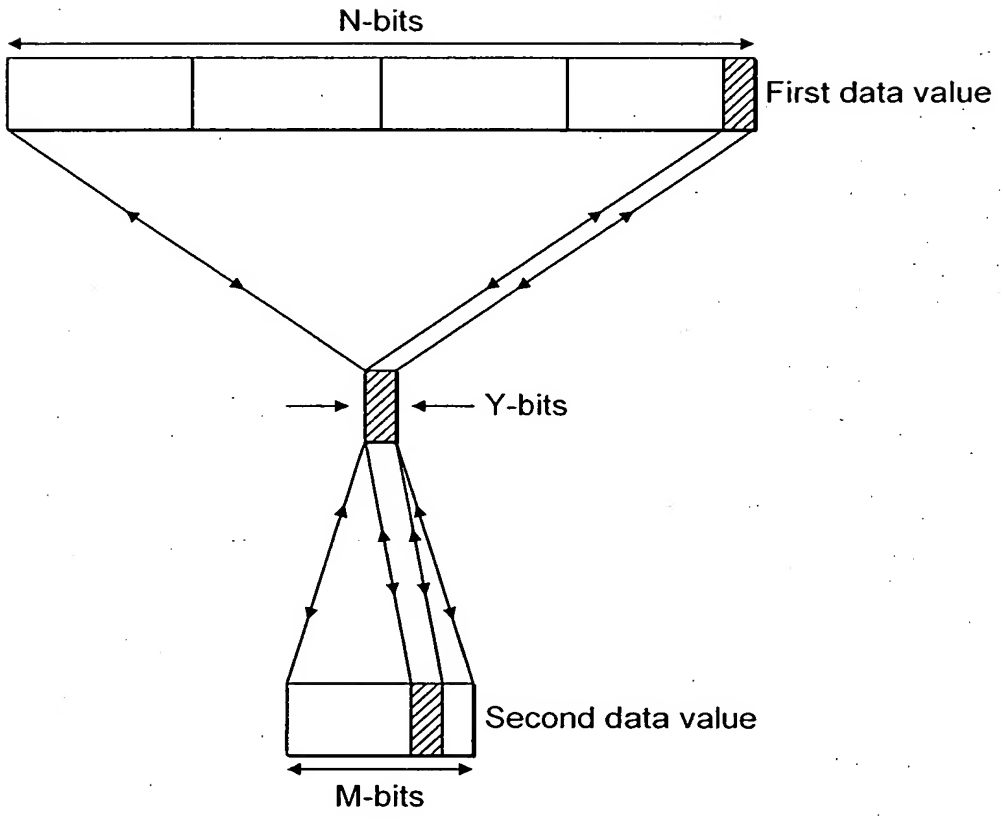

FIG. 4